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Reviewer: markspencer

Timestamp: [year=2008; month=10; day=17; hr=18; min=8; sec=55; ms=58; ]

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Total Errors: 0

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Actual SeqID Count: 3

# SEQUENCE LISTING

<110> SOMERS, WILLIAM S.  
STAHL, MARK  
SULLIVAN, FRANCIS X.

<120> CRYSTAL OF A GDP-FUCOSE SYNTHETASE POLYPEPTIDE

<130> W2025-701740

<140> 10090879

<141> 2002-03-04

<150> 09/373,432

<151> 1999-08-13

<150> 60/096,452

<151> 1998-08-13

<160> 3

<170> PatentIn version 3.5

<210> 1

<211> 338

<212> PRT

<213> Escherichia coli

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		20						25					30		

Leu	Cys	Asn	Ser	Lys	Arg	Ser	Val	Leu	Pro	Val	Ile	Glu	Arg	Leu	Gly
		35						40				45			

Gly	Lys	His	Pro	Thr	Phe	Val	Glu	Gly	Asp	Ile	Arg	Asn	Glu	Ala	Leu
		50					55				60				

Met	Thr	Glu	Ile	Leu	His	Asp	His	Ala	Ile	Asp	Thr	Val	Ile	His	Phe
65					70					75					80

Ala	Gly	Leu	Lys	Ala	Val	Gly	Glu	Ser	Val	Gln	Lys	Pro	Leu	Glu	Tyr
			85						90					95	

Tyr	Asp	Asn	Asn	Val	Asn	Gly	Thr	Leu	Arg	Leu	Ile	Ser	Ala	Met	Arg
				100					105					110	

Ala	Ala	Asn	Val	Lys	Asn	Phe	Ile	Phe	Ser	Ser	Ser	Ala	Thr	Val	Tyr	115	120	125	
Gly	Asp	Asn	Pro	Lys	Ile	Pro	Tyr	Val	Glu	Ser	Phe	Pro	Thr	Gly	Thr	130	135	140	
Pro	Gln	Ser	Pro	Tyr	Gly	Lys	Ser	Lys	Leu	Met	Val	Glu	Gln	Ile	Leu	145	150	155	160
Thr	Asp	Leu	Gln	Lys	Ala	Gln	Pro	Asp	Trp	Ser	Ile	Ala	Leu	Leu	Arg	165	170	175	
Tyr	Phe	Asn	Pro	Val	Gly	Ala	His	Pro	Ser	Gly	Asp	Met	Gly	Glu	Asp	180	185	190	
Pro	Gln	Gly	Ile	Pro	Asn	Asn	Leu	Met	Pro	Tyr	Ile	Ala	Gln	Val	Ala	195	200	205	
Val	Gly	Arg	Arg	Asp	Ser	Leu	Ala	Ile	Phe	Gly	Asn	Asp	Tyr	Pro	Thr	210	215	220	
Glu	Asp	Gly	Thr	Gly	Val	Arg	Asp	Tyr	Ile	His	Val	Met	Asp	Leu	Ala	225	230	235	240
Asp	Gly	His	Val	Val	Ala	Met	Glu	Lys	Leu	Ala	Asn	Lys	Pro	Gly	Val	245	250	255	
His	Ile	Tyr	Asn	Leu	Gly	Ala	Gly	Val	Gly	Asn	Ser	Val	Leu	Asp	Val	260	265	270	
Val	Asn	Ala	Phe	Ser	Lys	Ala	Cys	Gly	Lys	Pro	Val	Asn	Tyr	His	Phe	275	280	285	
Ala	Pro	Arg	Arg	Glu	Gly	Asp	Leu	Pro	Ala	Tyr	Trp	Ala	Asp	Ala	Ser	290	295	300	
Lys	Ala	Asp	Arg	Glu	Leu	Asn	Trp	Arg	Val	Thr	Arg	Thr	Leu	Asp	Glu	305	310	315	320
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Pro Asp

<210> 2

<211> 317

<212> PRT

<213> Escherichia coli

<400> 2

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Thr Arg Asp Glu Leu Asn Leu Leu Asp Ser Arg Ala Val His Asp Phe  
35 40 45

Phe Ala Ser Glu Arg Ile Asp Gln Val Tyr Leu Ala Ala Ala Lys Val  
50 55 60

Gly Gly Ile Val Ala Asn Asn Thr Tyr Pro Ala Asp Phe Ile Tyr Gln  
65 70 75 80

Asn Met Met Ile Glu Ser Asn Ile Ile His Ala Ala His Gln Asn Asp  
85 90 95

Val Asn Lys Leu Leu Phe Leu Gly Ser Ser Cys Ile Tyr Pro Lys Leu  
100 105 110

Ala Lys Gln Pro Met Ala Glu Ser Glu Leu Leu Gln Gly Thr Leu Glu  
115 120 125

Pro Thr Asn Glu Pro Tyr Ala Ile Ala Lys Ile Ala Gly Ile Lys Leu  
130 135 140

Cys Glu Ser Tyr Asn Arg Gln Tyr Gly Arg Asp Tyr Arg Ser Val Met  
145 150 155 160

Pro Thr Asn Leu Tyr Gly Pro His Asp Asn Phe His Pro Ser Asn Ser  
165 170 175

His Val Ile Pro Ala Leu Leu Arg Arg Phe His Glu Ala Thr Ala Gln  
180 185 190

Asn Ala Pro Asp Val Val Val Trp Gly Ser Gly Thr Pro Met Arg Glu  
195 200 205

Phe Leu His Val Asp Asp Met Ala Ala Ala Ser Ile His Val Met Glu  
210 215 220

Leu Ala His Glu Val Trp Leu Glu Asn Thr Gln Pro Met Leu Ser His  
225 230 235 240

Ile Asn Val Gly Thr Gly Val Asp Cys Thr Ile Arg Glu Leu Ala Gln  
245 250 255

Thr Ile Ala Lys Val Val Gly Tyr Lys Gly Arg Val Val Phe Asp Ala  
260 265 270

Ser Lys Pro Asp Gly Thr Pro Arg Lys Leu Leu Asp Val Thr Arg Leu  
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<212> PRT  
<213> Homo sapiens

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20 25 30

Phe Val Ser Ser Lys Asp Ala Asp Leu Thr Asp Thr Ala Gln Thr Arg  
35 40 45

Ala Leu Pro Glu Lys Val Gln Pro Thr His Val Ile His Leu Ala Ala  
50 55 60

Met Val Gly Gly Leu Phe Arg Asn Ile Lys Tyr Asn Leu Asp Phe Trp  
65 70 75 80

Arg	Lys	Asn	Val	His	Met	Asn	Asp	Asn	Val	Leu	His	Ser	Ala	Phe	Glu	85	90	95
Val	Gly	Ala	Arg	Lys	Val	Val	Ser	Cys	Leu	Ser	Thr	Cys	Ile	Phe	Pro	100	105	110
Asp	Lys	Thr	Thr	Tyr	Pro	Ile	Asp	Glu	Thr	Met	Ile	His	Asn	Gly	Pro	115	120	125
Pro	His	Asn	Ser	Asn	Phe	Gly	Tyr	Ser	Tyr	Ala	Lys	Arg	Met	Ile	Asp	130	135	140
Val	Gln	Asn	Arg	Ala	Tyr	Phe	Gln	Gln	Tyr	Gly	Cys	Thr	Phe	Thr	Ala	145	150	155
Val	Ile	Pro	Thr	Asn	Val	Phe	Gly	Pro	His	Asp	Asn	Phe	Asn	Ile	Glu	165	170	175
Asp	Gly	His	Val	Leu	Pro	Gly	Leu	Ile	His	Lys	Val	His	Leu	Ala	Lys	180	185	190
Ser	Ser	Gly	Ser	Ala	Leu	Thr	Val	Trp	Gly	Thr	Gly	Asn	Pro	Arg	Arg	195	200	205
Gln	Phe	Ile	Tyr	Ser	Leu	Asp	Leu	Ala	Gln	Leu	Phe	Ile	Trp	Val	Leu	210	215	220
Arg	Glu	Tyr	Asn	Glu	Val	Glu	Pro	Ile	Ile	Leu	Ser	Val	Gly	Glu	Glu	225	230	235
Asp	Glu	Val	Ser	Ile	Lys	Glu	Ala	Ala	Glu	Ala	Val	Val	Glu	Ala	Met	245	250	255
Asp	Phe	His	Gly	Glu	Val	Thr	Phe	Asp	Thr	Thr	Lys	Ser	Asp	Gly	Gln	260	265	270
Phe	Lys	Lys	Thr	Ala	Ser	Asn	Ser	Lys	Leu	Arg	Thr	Tyr	Leu	Pro	Asp	275	280	285
Phe	Arg	Phe	Thr	Pro	Phe	Lys	Gln	Ala	Val	Lys	Glu	Thr	Cys	Ala	Trp	290	295	300

Phe Thr Asp Asn Tyr Glu Gln Ala Arg Lys

305

310